

Claims

1. An improved electric radiator filled with oil comprising:

a plurality of radiating fins (1) which are linked in turn, each of which being hollow and sheet-like with at least two grooves (10) therein for leading oil, the upper and lower ends of each of which being formed or mounted with hollow connecting sleeves (11) extended horizontally, and oil-inflow holes being formed inside said connecting sleeves (11); each of said radiating fins (1) being communicated with the oil-inflow hole and being filled with oil;

an electric-control box (2) mounted on said radiating fins (1), in which a switch (21), a temperature controller (22), a heat protector (23) and a wire (24) being provided ;

a heater(3) located in the inside of said radiating fins (1);

wherein either the upper and lower ends (13, 14) of each said radiating fin (1) are in the different vertical planes, or the upper and lower ends (13, 14) of each said radiating fin (1) are in a same vertical plane, but at least a part of the middle of which being curved to form a convex configuration towards the side, each of said radiating fins (1) having the same shape and dimension.

2. An improved electric radiator filled with oil according to claim 1, wherein the upper and lower ends (13, 14) of each said radiating fin (1) are in the different vertical planes and are connected by a curved portion (15), said curved portion (15) includes two folds (151, 152) which are reversed to each other in direction.

3. An improved electric radiator filled with oil according to claim 2, wherein said two folds (151, 152), with equal radius and length of the arc, are circular-arc in shape, the radius R of which is not less than 15 mm and the central angle α of which ranges between 30° and 60°.

4. An improved electric radiator filled with oil according to claim 2, wherein the lengths of said upper end (13) and said lower end (14) of each said radiating fin (1) are equal, the ratio of this length to the height of said curve portion (15) ranges between 1: 1 and 5:1.

5. An improved electric radiator filled with oil according to claim 1, wherein the upper and lower ends (13, 14) of each said radiating fin (1) are in a same vertical plane and are connected by a curved portion (15), said curved portion (15) includes a middle fold (153) and two end folds (154) which are at two ends of said middle fold (153), said two end folds (154) have the same direction which is reverse to the direction of said middle fold (153).

6. An improved electric radiator filled with oil according to claim 5, wherein both said middle fold (153) and end folds (154) are circular-arc in shape, the radius R1 of said middle fold (153) ranges between 80 mm and 100 mm with the central angle ranging between 40° and 70°; the radius R2 of said end folds (154) ranges between 15 mm and 30 mm with the central angle ranging from 30° to 50°.

7. An improved electric radiator filled with oil according to claim 5, wherein the length of said upper end (13) and said lower end (14) are equal, the ratio of this length to the height of the curved portion (15) ranges between 1:1 to 0.2:1.

8. An improved electric radiator filled with oil according to any of the claims, wherein said electric-control box (2) is installed on the leftmost said radiating fin (1), a back cover (4) is installed on the rightmost said radiating fin (1), both said electric-control box (2) and said back cover (4) are provided with holes (100) for radiating heat.

9. An improved electric radiator filled with oil according to any one of claims 1 to 7, wherein wheels (5) are installed at the bottom of said radiating fins (1).